

IN THE CLAIMS:

1. (Original) A phase change-type memory element comprising:

two or more electrodes provided through an insulating layer;

an exposed surface on which at least a part of the insulating layer and at least a part of each of the electrodes are exposed; and

a phase change recording material layer provided, on said exposed surface, in contact with said at least two electrodes.

2. (Original) The phase change-type memory element according to claim 1, wherein said exposed surface is constituted by at least one of a plane surface, a multiplane surface, and a curved surface.

3. (Original) The phase change-type memory element according to claim 1, wherein the phase change recording material layer has a thickness in the range of 1 to 1,000 nm.

4. (Original) The phase change-type memory element according to claim 1, wherein the insulating layer interposed between a pair of the electrodes constituting one memory area has a thickness in the range of 10 to 1,000 nm.

5. (Currently Amended) The phase change-type memory element according to ~~any one of claims 1 to 4~~ claim 1, wherein the phase change recording material layer contains at least one chalcogenide.

6. (Currently Amended) The phase change-type memory element according to ~~any one of claims 1 to 4~~ claim 1, wherein the phase change recording material layer is formed of an organic material.

7. (Original) The phase change-type memory element according to claim 1, wherein a barrier layer and/or a heat control layer are provided between the exposed surface and the phase change recording material layer.

8. (Original) A process for producing a phase change-type memory element, comprising the steps of:

providing two or more electrodes opposite to each other through an insulating material;

forming an exposed surface on which at least a part of the insulating material and at least a part of each of the electrodes are exposed; and

forming a phase change recording material layer on the exposed surface so as to be in contact with at least two of the electrodes.